

KHNPDCDRAIsPEm Resource

From: Ciocco, Jeff
Sent: Monday, February 22, 2016 10:21 AM
To: apr1400rai@khnp.co.kr; KHNPDCDRAIsPEm Resource; Andy Jiyong Oh; Christopher Tyree
Cc: Honcharik, John; Mitchell, Matthew; Wunder, George; Lee, Samuel
Subject: APR1400 Design Certification Application RAI 414-8531 (10.02.03 - Turbine Rotor Integrity)
Attachments: APR1400 DC RAI 414 MCB 8531.pdf

KHNP,

The attachment contains the subject request for additional information (RAI). This RAI was sent to you in draft form. Your licensing review schedule assumes technically correct and complete responses within 30 days of receipt of RAIs.

Please submit your RAI response to the NRC Document Control Desk.

Thank you,

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Hearing Identifier: KHNP_APR1400_DCD_RAI_Public
Email Number: 464

Mail Envelope Properties (602ef2e195c14f13aabbe3836c4c0c87)

Subject: APR1400 Design Certification Application RAI 414-8531 (10.02.03 - Turbine Rotor Integrity)
Sent Date: 2/22/2016 10:20:41 AM
Received Date: 2/22/2016 10:20:42 AM
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Files	Size	Date & Time
MESSAGE	498	2/22/2016 10:20:42 AM
APR1400 DC RAI 414 MCB 8531.pdf		89950
image001.jpg	5040	

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REQUEST FOR ADDITIONAL INFORMATION 414-8531

Issue Date: 02/22/2016
Application Title: APR1400 Design Certification Review – 52-046
Operating Company: Korea Hydro & Nuclear Power Co. Ltd.
Docket No. 52-046
Review Section: 10.02.03 - Turbine Rotor Integrity
Application Section: 10.2.3

QUESTIONS

10.02.03-2

In response to RAI 288-8328, your letter dated December 17, 2015, stated that COL 10.2(3) will be revised (**in bold**) to specify the following, in order to resolve the NRC staff's RAI that an applicable COL information Item be added to specify that the COL applicant shall provide the site-specific turbine rotor inservice inspection program and inspection interval, including the turbine valve test and inspection program and test and inspection frequency:

"The COL applicant is to provide a description of how the turbine missile analysis conforms with Subsection 10.2.3.6 to ensure that the requirements for protection against turbine missiles (e.g., applicable material properties, method of calculating the fracture toughness properties per SRP Section 10.2.3 acceptance criteria, preservice inspections, **in-service tests and inspections**) will be met."

This revision of COL 10.2(3) clarifies what the turbine missile probability analysis takes into account, but does not specify that the COL applicant will provide the site-specific turbine rotor inservice inspection program and inspection interval, including the turbine valve test and inspection program and test and inspection frequency. An applicable COL information Item should be added to ensure the COL applicant provides a description of this information as specified in SRP Section 10.2.3, Paragraphs I.5 and II.5, and to be consistent with APR1400 FSAR Tier 2, Section 10.2.3.5.



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